

CLAIMS

1. A needle-like member forming a conductive contact which electrically connects a to-be-contacted body to a circuit for generating and transmitting an electrical
5 signal to be supplied to the to-be-contacted body or to a circuit board including the circuit, the needle-like member comprising:

a contact member in which a portion coming in contact with the to-be-contacted body during use is processed into
10 a predetermined shape; and

a columnar member that is integrally formed with the contact member, and is formed with a through hole having a constant inner diameter or an inner diameter monotonically decreasing with distance from the contact member.
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2. The needle-like member according to claim 1, wherein the contact member is formed near a peripheral portion of the columnar member in a longitudinal direction to come in contact with a peripheral portion of a connecting electrode
20 in the to-be-contacted body during use.

3. A conductive contact which electrically connects a to-be-contacted body to a circuit for generating and transmitting an electrical signal to be supplied to the to-
25 be-contacted body or to a circuit board including the circuit, the conductive contact comprising:

a first needle-like member including
a contact member that comes in contact with one of the to-be-contacted body, and the circuit or the circuit
30 board during use, and in which a portion coming in contact with the to-be-contacted body is processed into a predetermined shape; and

a columnar member that is integrally formed with

the contact member, and is formed with a through hole having a constant inner diameter or an inner diameter monotonically decreasing with distance from the contact member;

5 a second needle-like member that is arranged to be electrically connected to the first needle-like member, and slides in a longitudinal direction relative to the first needle-like member; and

10 a spring member that is joined to the first needle-like member and the second needle-like member, and applies an elastic force corresponding to a distance between the first needle-like member and the second needle-like member.

4. The conductive contact according to claim 3, wherein
15 the second needle-like member includes

 a support member that is slidable in the longitudinal direction while being in contact with an inner circumference surface of the through hole formed in the first needle-like member; and

20 a contact member that is integrally formed with the support member, and comes in electrical contact with the other of the to-be-contacted body, and the circuit or the circuit board during use.

25 5. A conductive contact unit comprising:

 a circuit that generates and transmits an electrical signal to be supplied to a to-be-contacted body or a circuit board that includes the circuit;

 a conductive contact including

30 a needle-like member with a contact member that comes in contact with one of the to-be-contacted body, and the circuit or the circuit board including the circuit during use, in which a portion coming in contact with the

to-be-contacted body is processed into a predetermined shape; and

5 a columnar member that is integrally formed with the contact member, and is formed with a through hole having a constant inner diameter or an inner diameter monotonically decreasing with distance from the contact member; and

10 a spring member that biases the needle-like member in a direction perpendicular to the to-be-contacted body; and

 a conductive contact holder that includes a holder hole for accommodating the conductive contact.